

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13106 - L2 Version 2
Chandra X-Ray Center

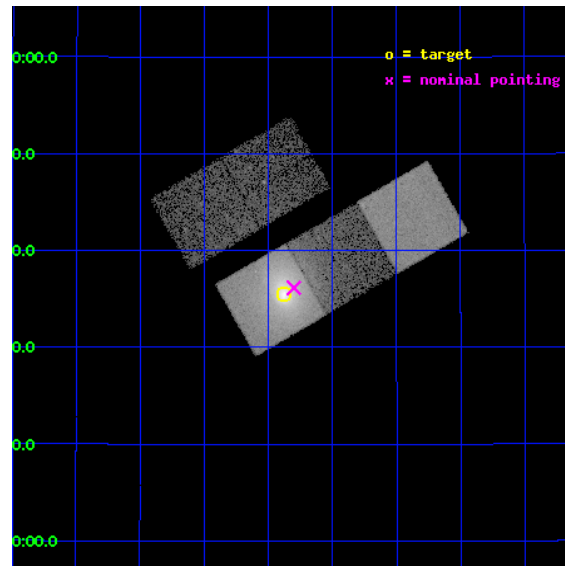
L2 Processing Date : Feb 7 2012

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1 Front

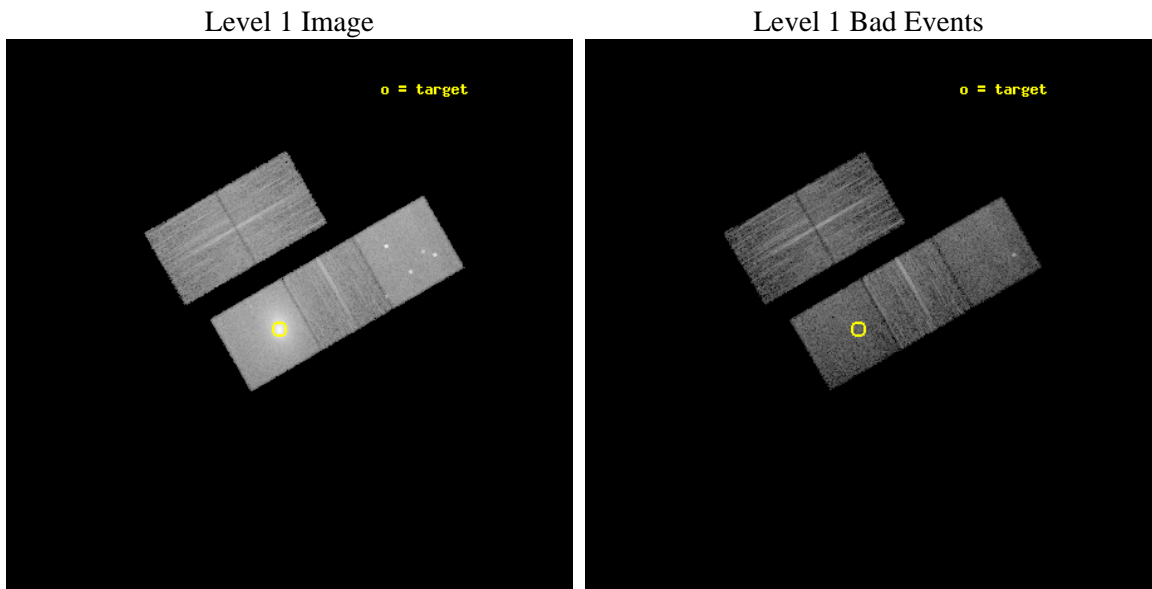
seq_num	890046	Sequence number
obs_id	13106	Observation id
title	AO-12 Calibration Observations of A1795	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.2003770708	Nominal RA [deg]
dec_nom	26.602591231596	Nominal Dec [deg]
roll_nom	150.05327748987	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10043.679407239	Sum of GTIs [s]
livetime	9912.4513417342	Livetime [s]
ontime2	10043.515247226	Sum of GTIs [s]
ontime3	10043.556287229	Sum of GTIs [s]
ontime5	10043.638367236	Sum of GTIs [s]
ontime6	10043.597327232	Sum of GTIs [s]
ontime7	10043.679407239	Sum of GTIs [s]
l2events	214831	Number of level 2 events



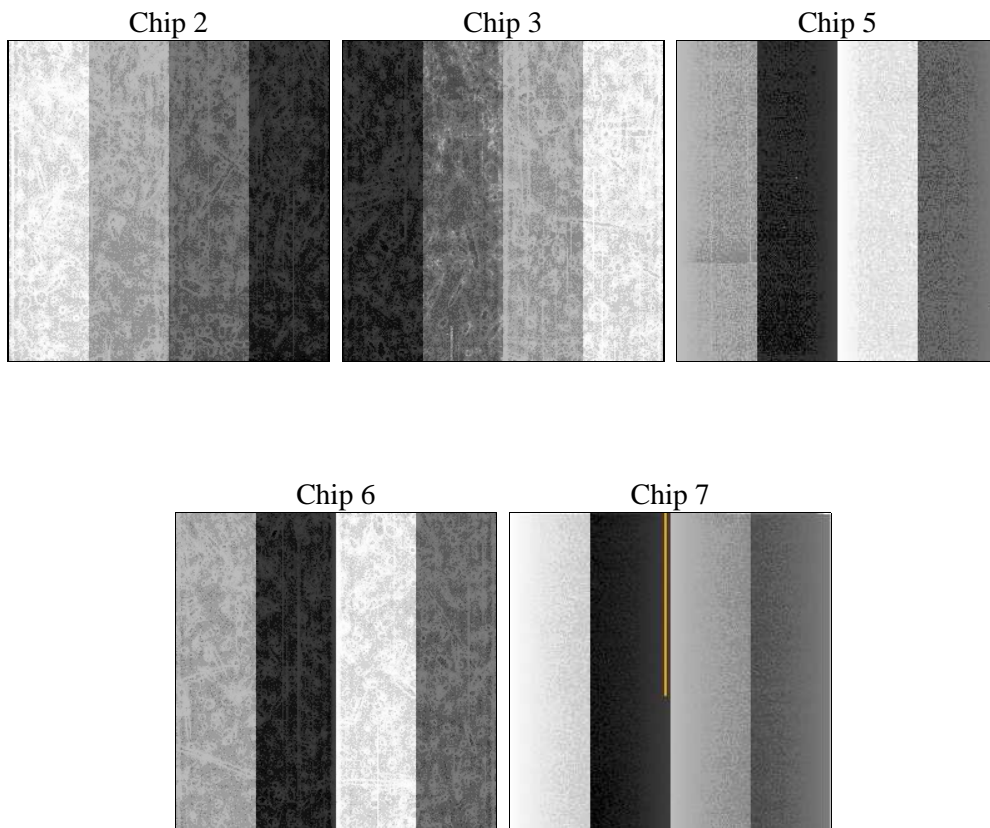
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	10043.679407239	Sum of GTIs [s]
caldsver	4.4.7	 	ontime2	10043.515247226	Sum of GTIs [s]
date	2012-02-07T13:23:19	Date and time of file creation	ontime3	10043.556287229	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	10043.638367236	Sum of GTIs [s]
			ontime6	10043.597327232	Sum of GTIs [s]
			ontime7	10043.679407239	Sum of GTIs [s]
			l1events	500812	Number of level 1 events

2.1.4 Events

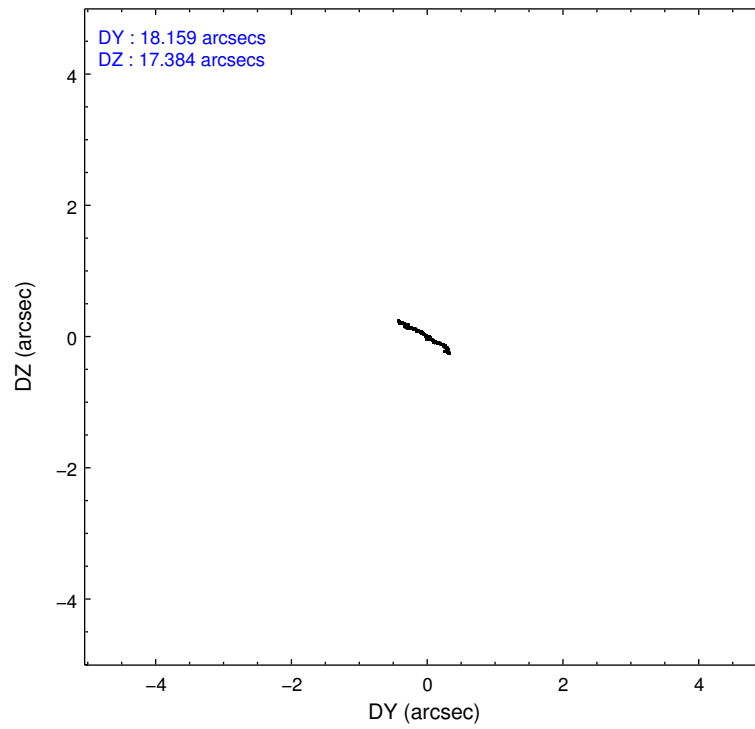
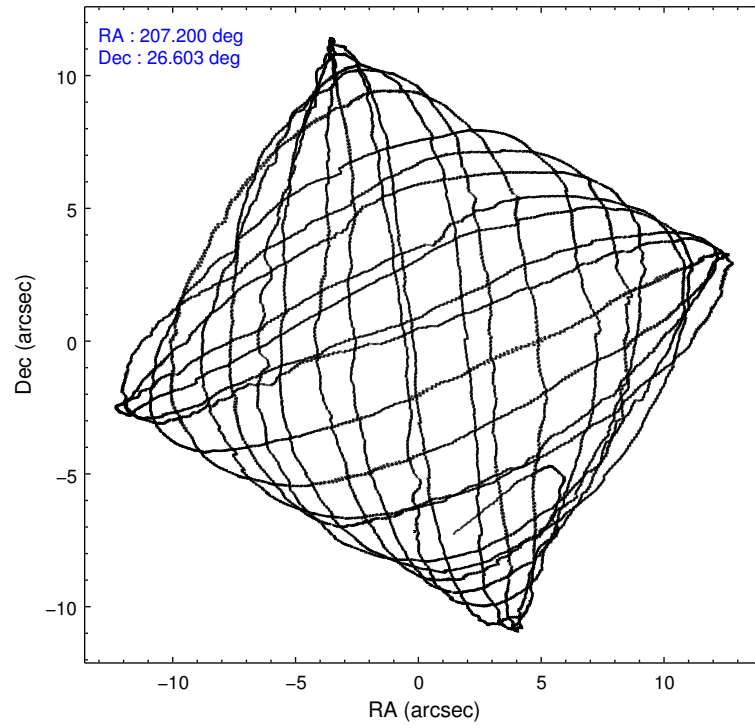
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	67380	63977	107407	72557	189491
rejected events	59366	56341	53202	58938	46509
rejected %	88%	88%	49%	81%	24%

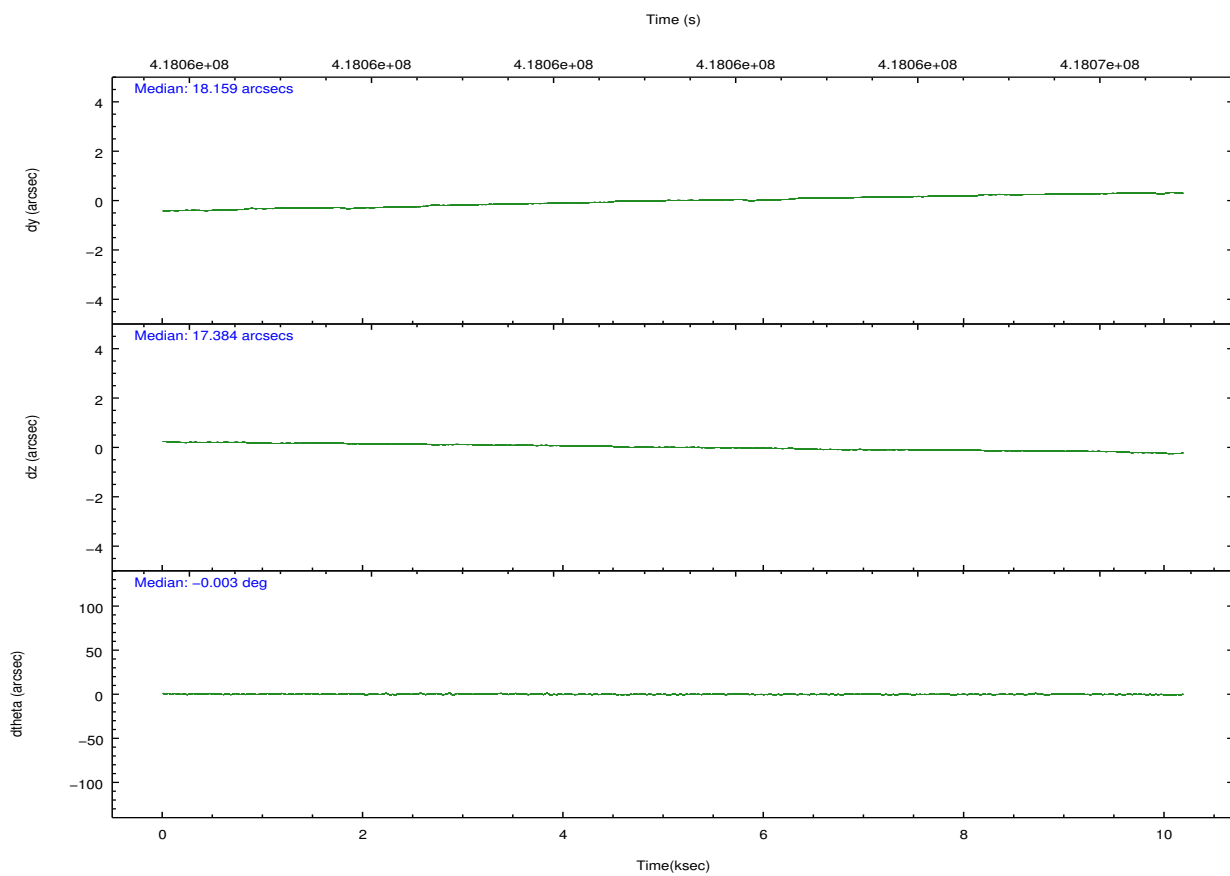
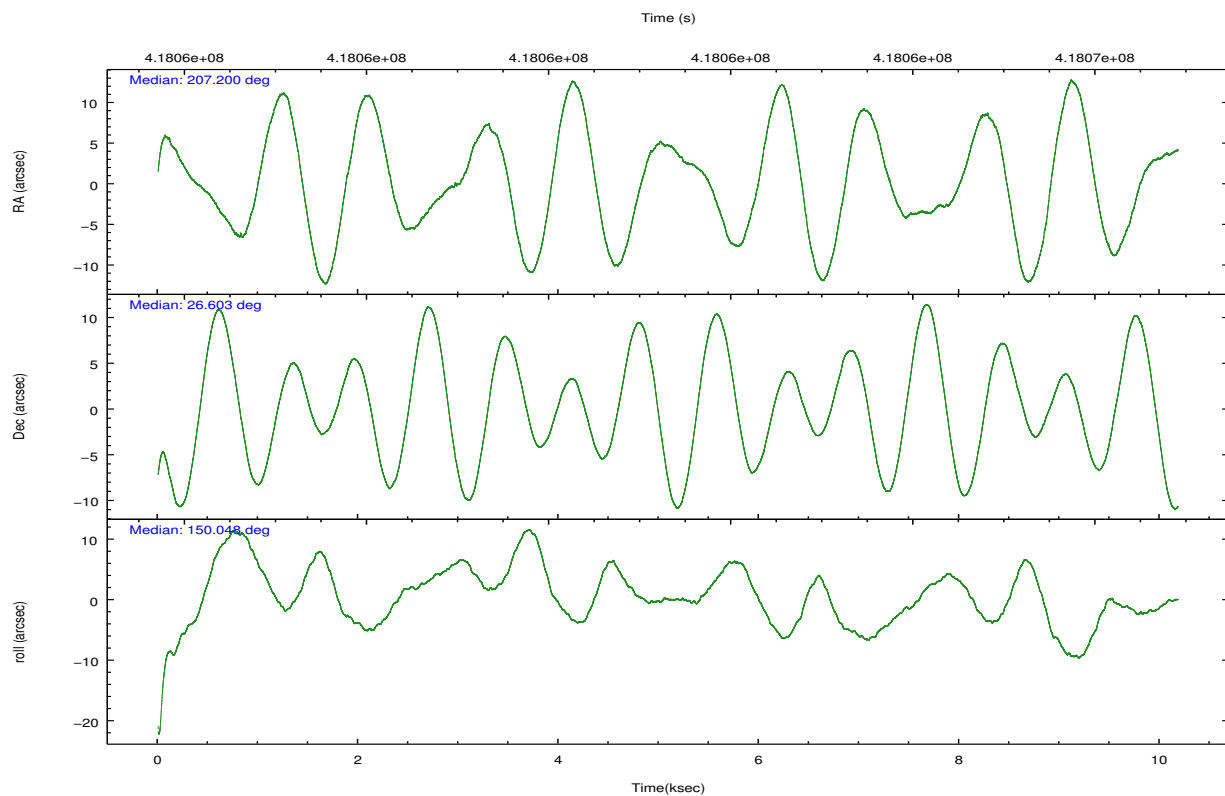
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	3340	3049	8035	7473	36089
	4%	4%	7%	10%	19%
grade 1 events	42	36	211	54	140
	0%	0%	0%	0%	0%
grade 2 events	1813	1594	15888	2330	35447
	2%	2%	14%	3%	18%
grade 3 events	741	810	2005	981	15309
	1%	1%	1%	1%	8%
grade 4 events	770	738	1864	957	15094
	1%	1%	1%	1%	7%
grade 5 events	2582	3158	7962	3182	9199
	3%	4%	7%	4%	4%
grade 6 events	1358	1445	26422	1882	41084
	2%	2%	24%	2%	21%
grade 7 events	56734	53147	45020	55698	37129
	84%	83%	41%	76%	19%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	207.230957	207.2003770708011	Subarray requested	NONE	NONE
[deg] Pointing Dec	26.603046	26.60259123159552	Alternating exposures requested	N	N
[deg] Pointing Roll	149.882979	150.053277489868	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	418056413.184000	418055463.1652			
Observation start date	2011-04-01T14:45:47	2011-04-01T14:31:03			
[s] Observation end time (MET)	418066413.184000	418066547.00327			
Observation end date	2011-04-01T17:32:27	2011-04-01T17:35:47			
Read mode	TIMED	TIMED			

2.3 Aspect



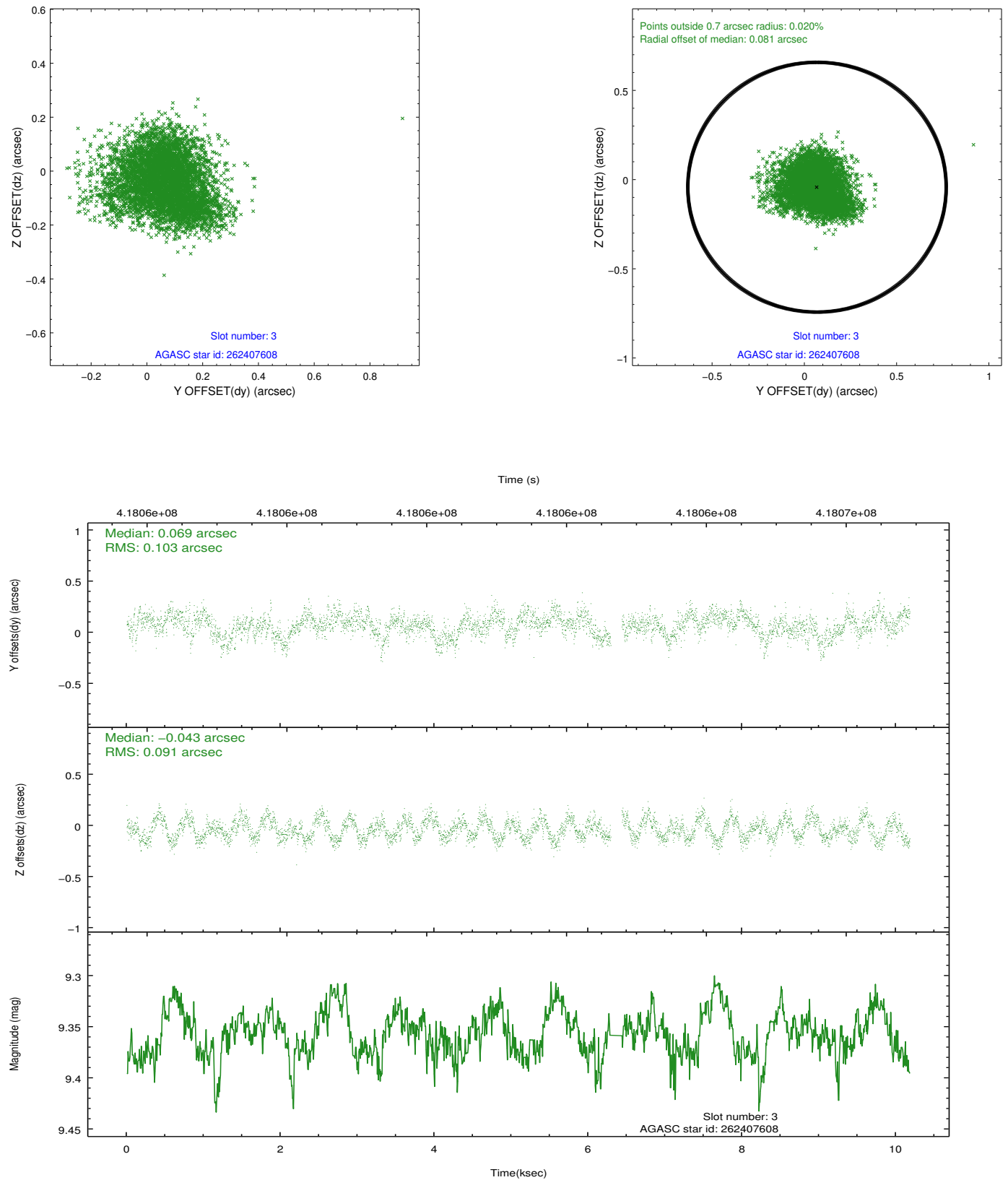


Slot Statistics

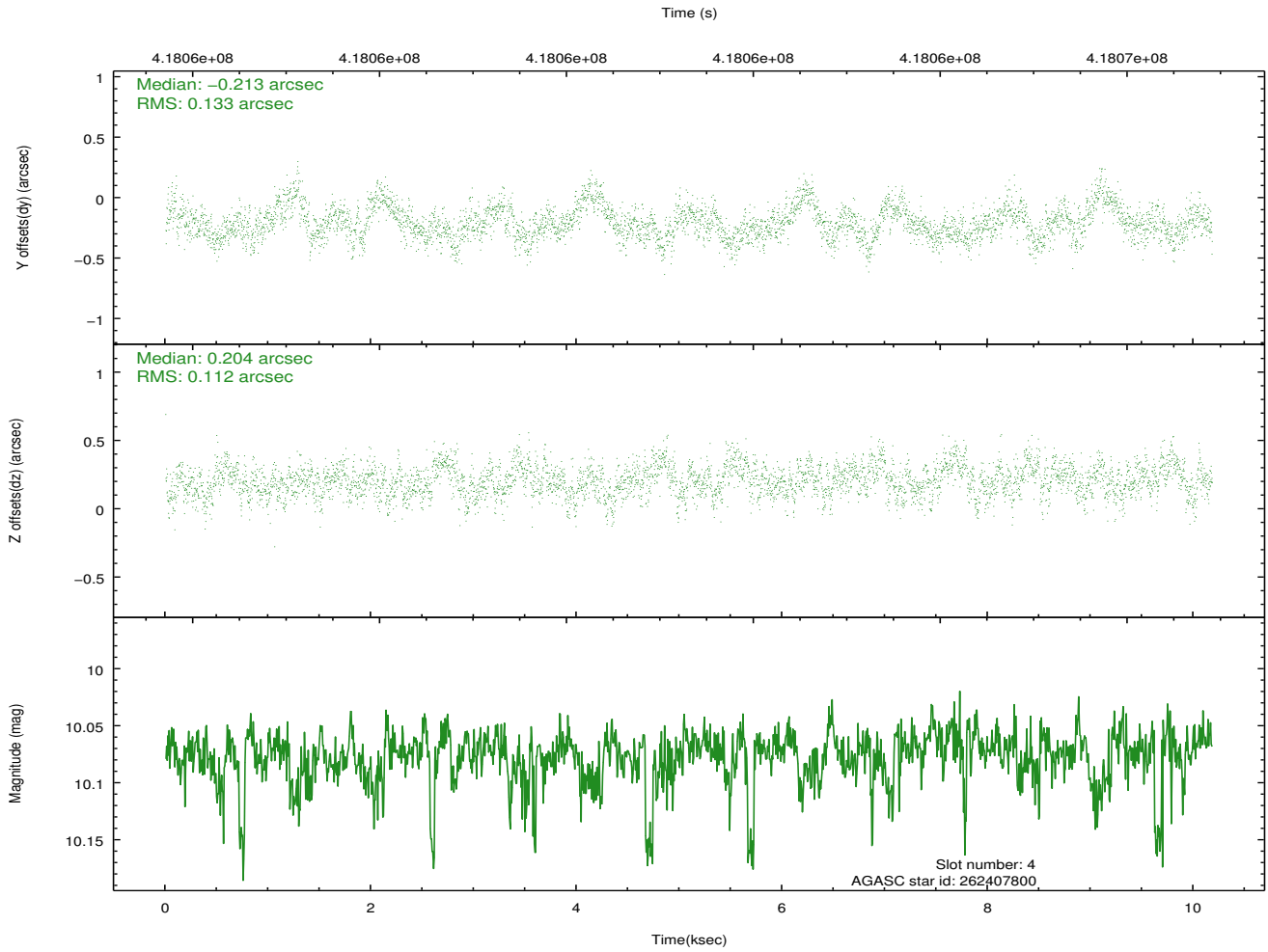
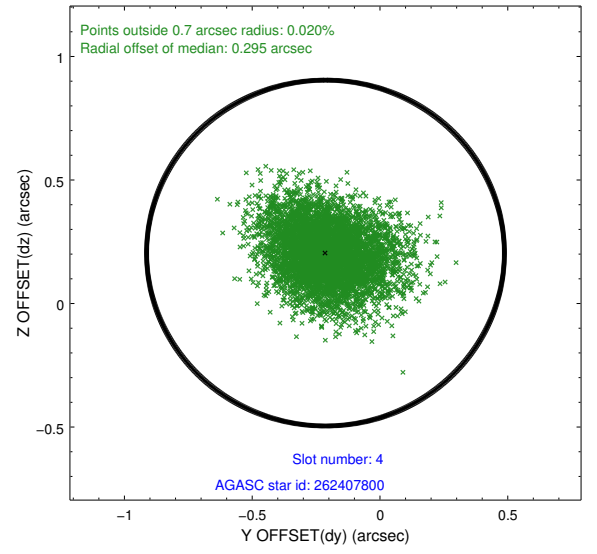
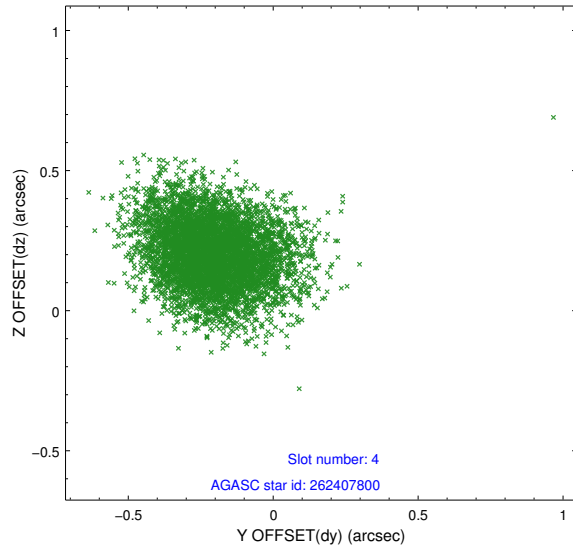
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.93	2482	-0.063	-0.039	0.011	0.016	0.000000	0.000000	-771.28	-1738.81
1	FID	ACIS-S-4	7.01	2483	0.209	0.041	0.008	0.012	0.000000	0.000000	2142.06	169.16
2	FID	ACIS-S-5	7.04	2483	-0.177	0.007	0.010	0.015	0.000000	0.000000	-1823.54	163.46
3	GUIDE	262407608	9.36	4888	0.069	-0.043	0.146	0.230	207.378401	26.435507	-713.41	282.83
4	GUIDE	262407800	10.07	4963	-0.213	0.204	0.184	0.302	207.321181	27.251762	923.98	-2163.34
5	GUIDE	262408096	9.34	4954	-0.004	-0.083	0.120	0.199	207.011678	26.515421	453.95	626.38
6	GUIDE	262408936	9.67	4949	0.127	0.081	0.126	0.208	207.154731	26.726554	435.52	-261.39
7	GUIDE	262411960	9.67	4948	0.018	-0.164	0.159	0.267	207.327895	25.881727	-1574.23	2088.26

2.4 Star Slots

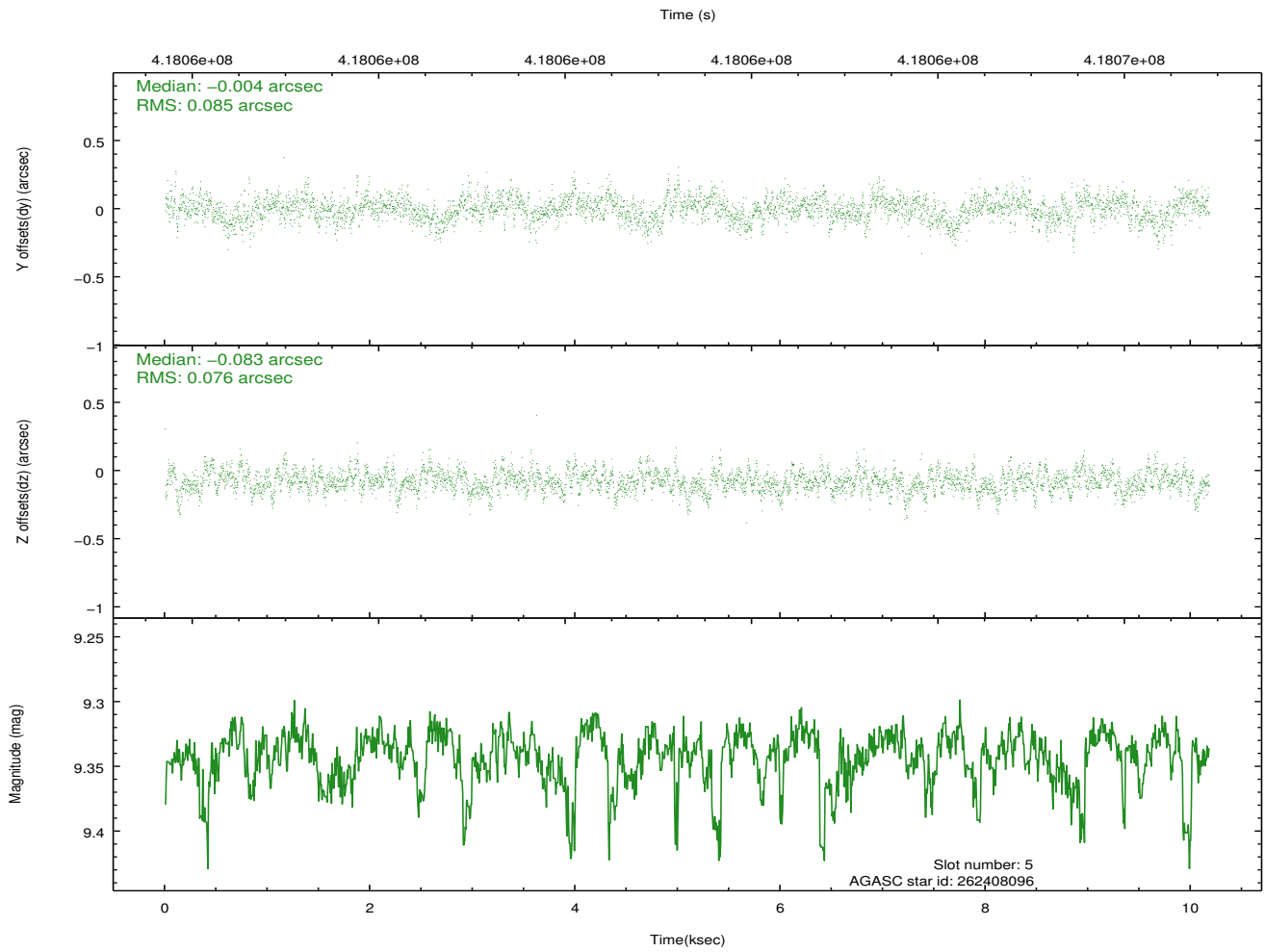
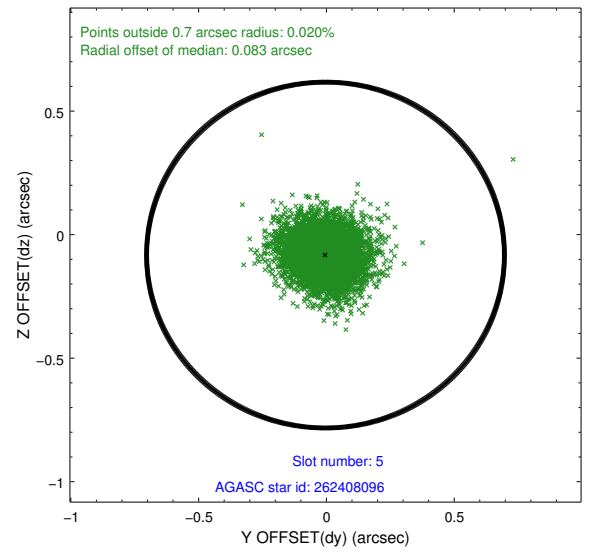
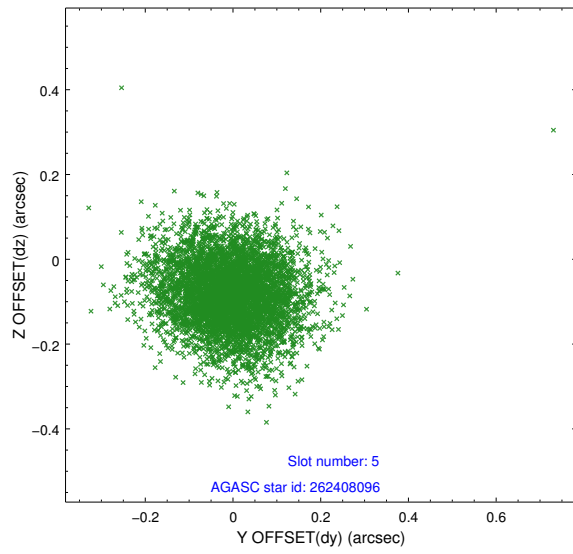
2.4.1 Slot 3



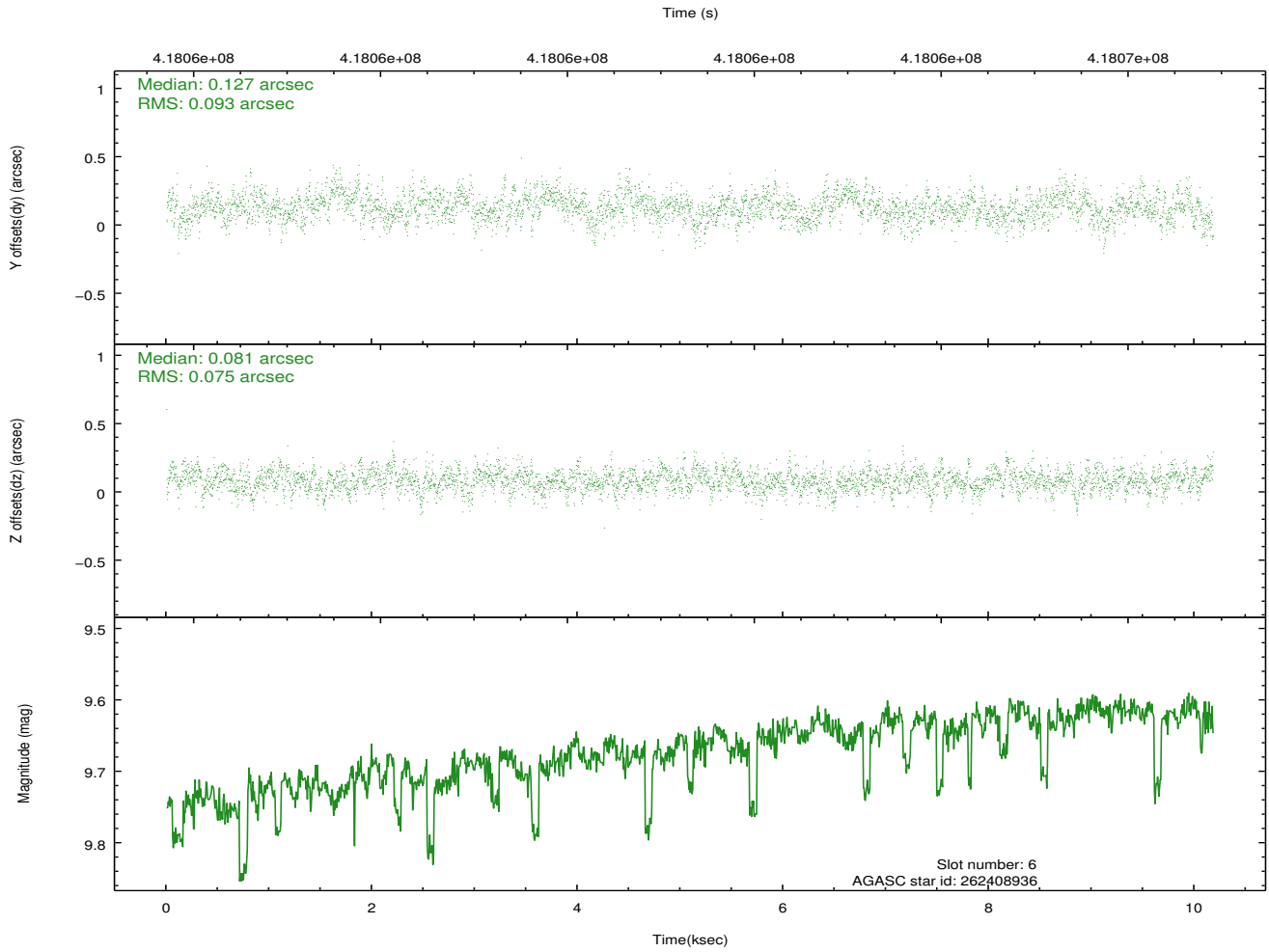
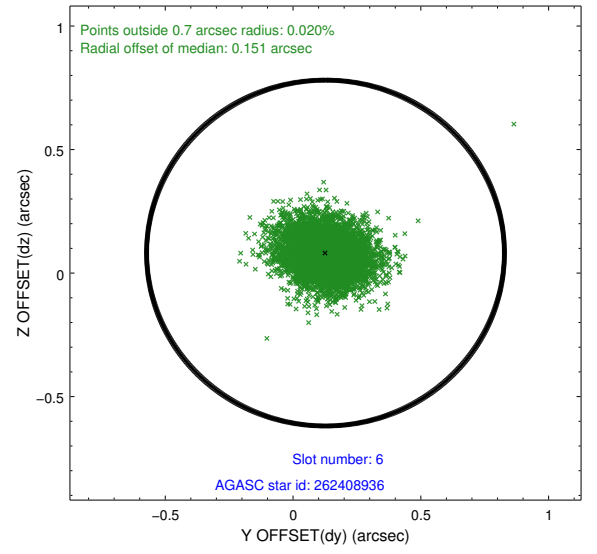
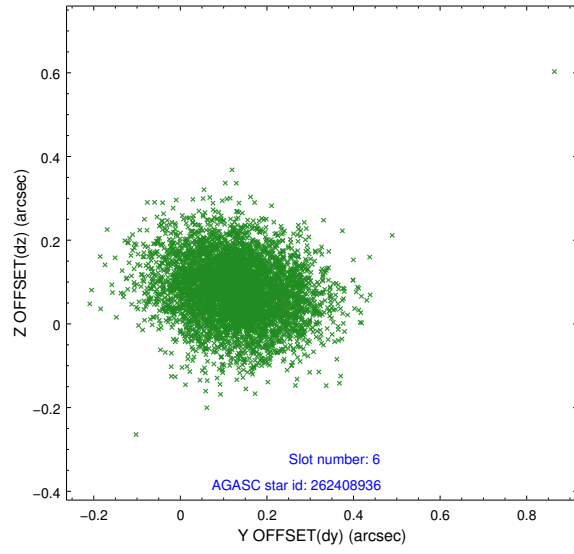
2.4.2 Slot 4



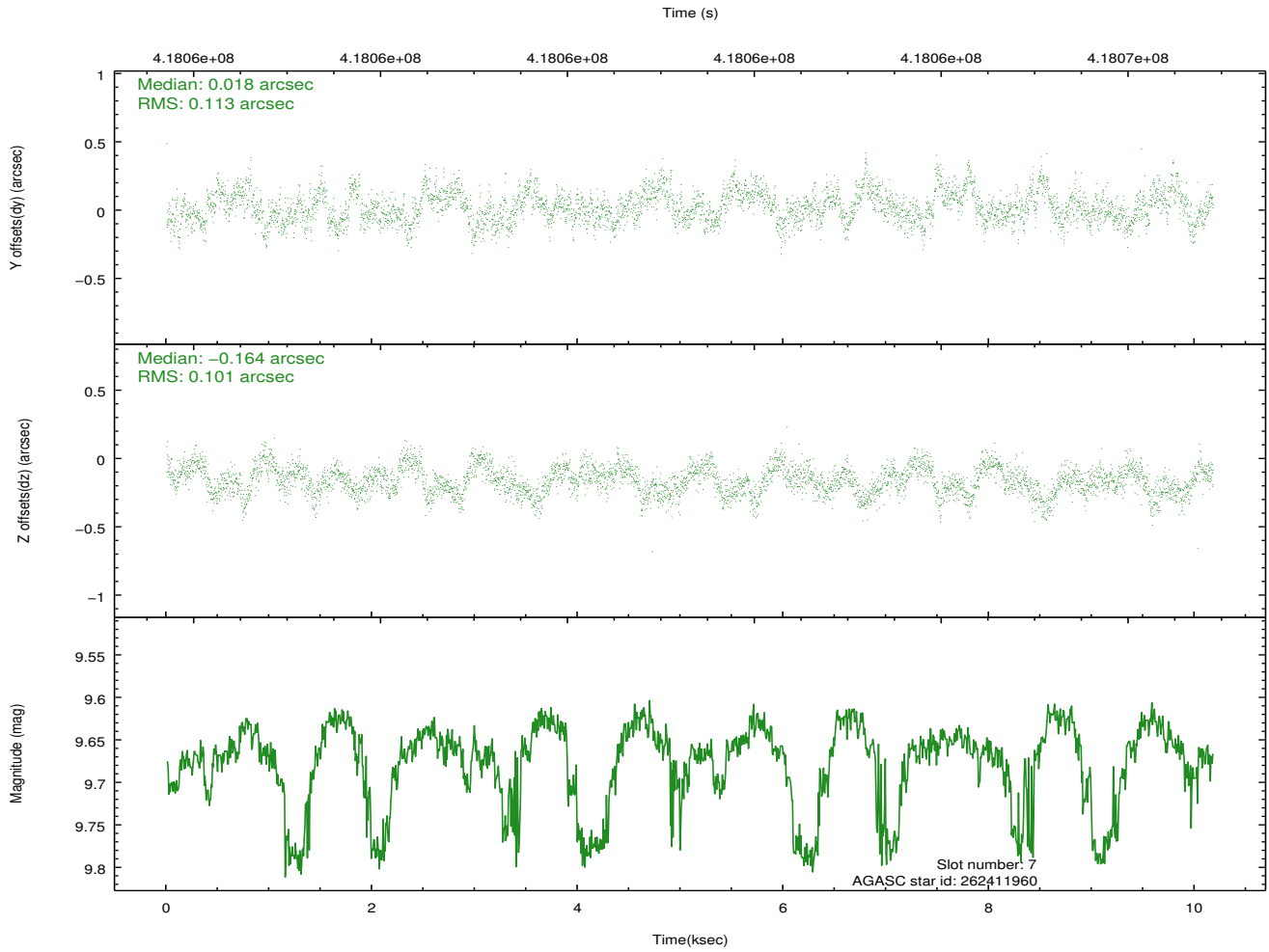
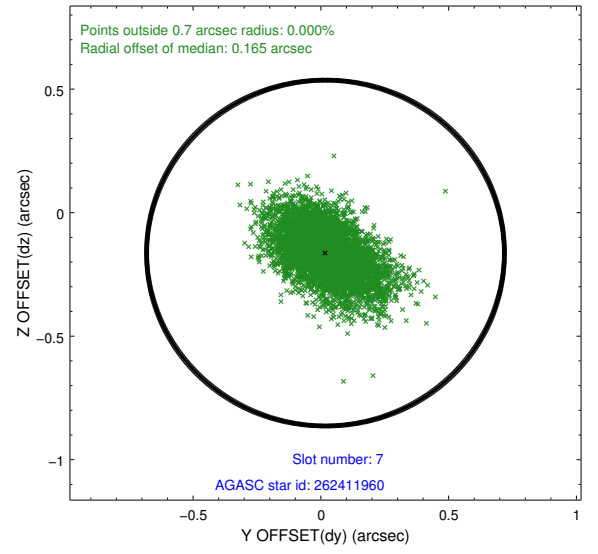
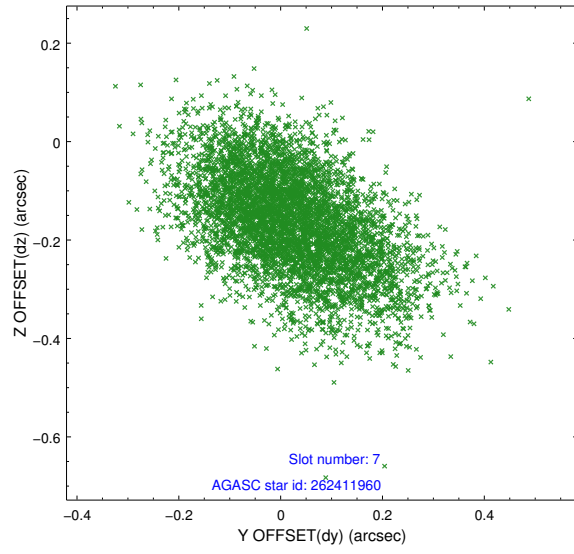
2.4.3 Slot 5



2.4.4 Slot 6

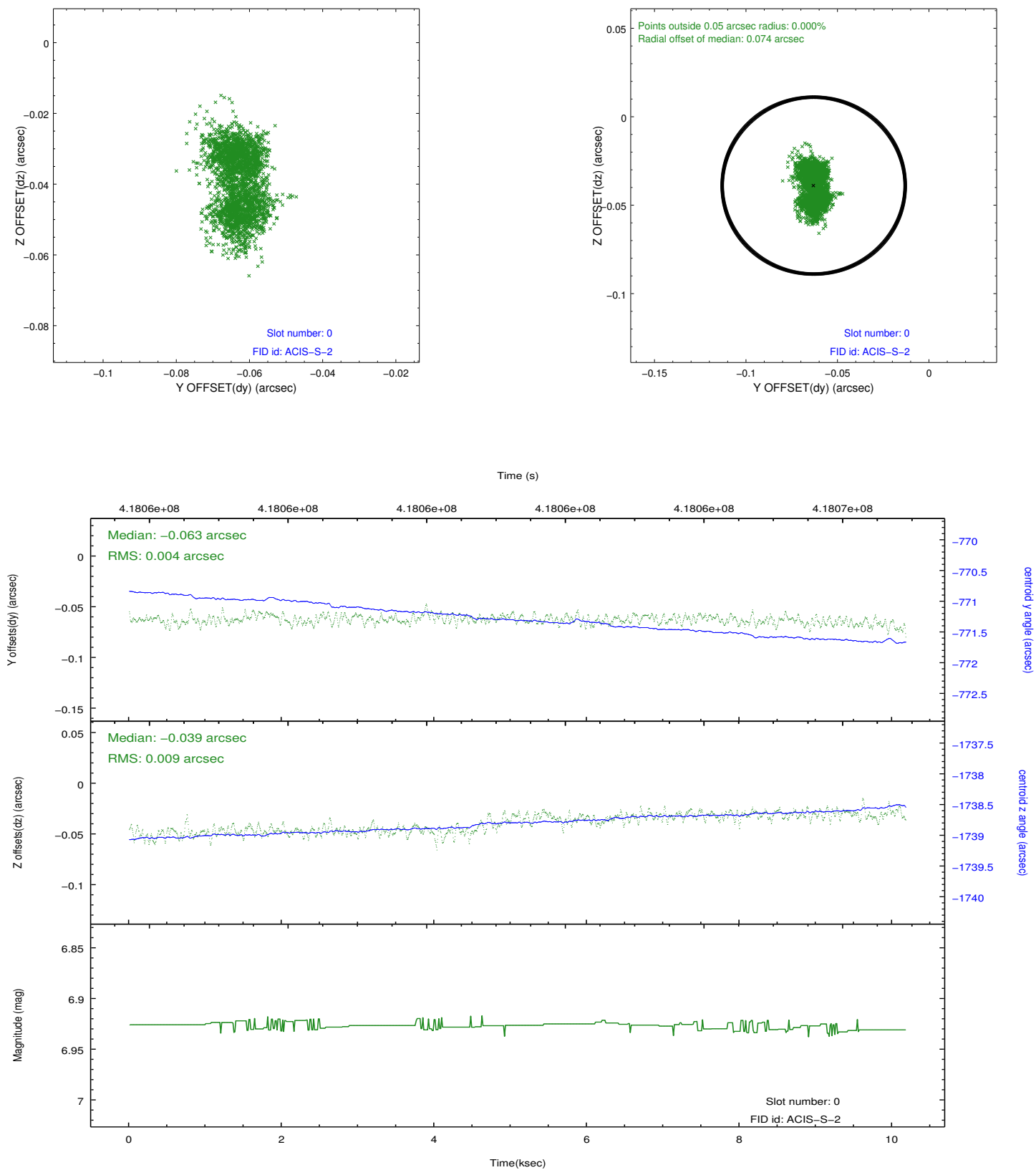


2.4.5 Slot 7

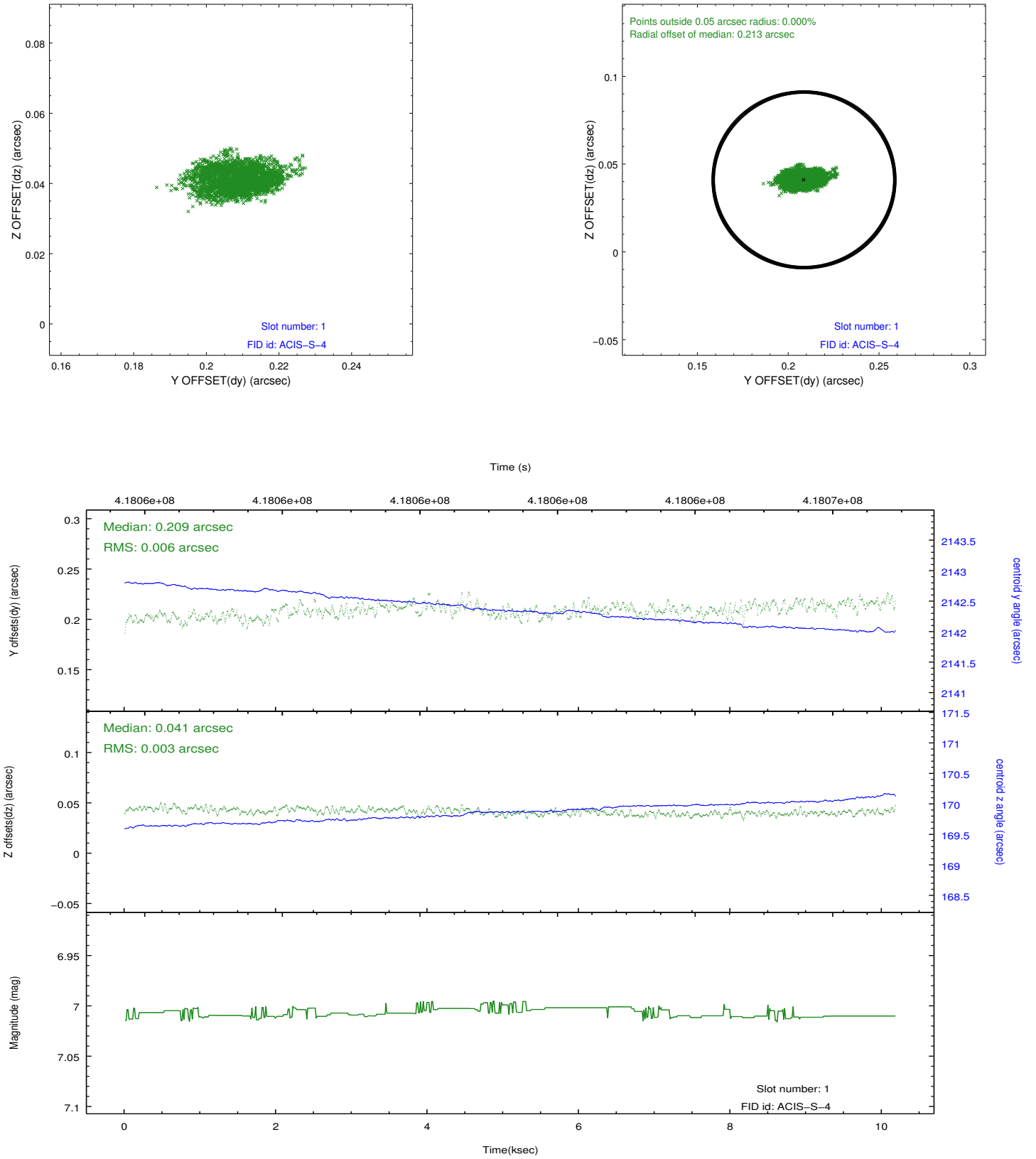


2.5 FID Slots

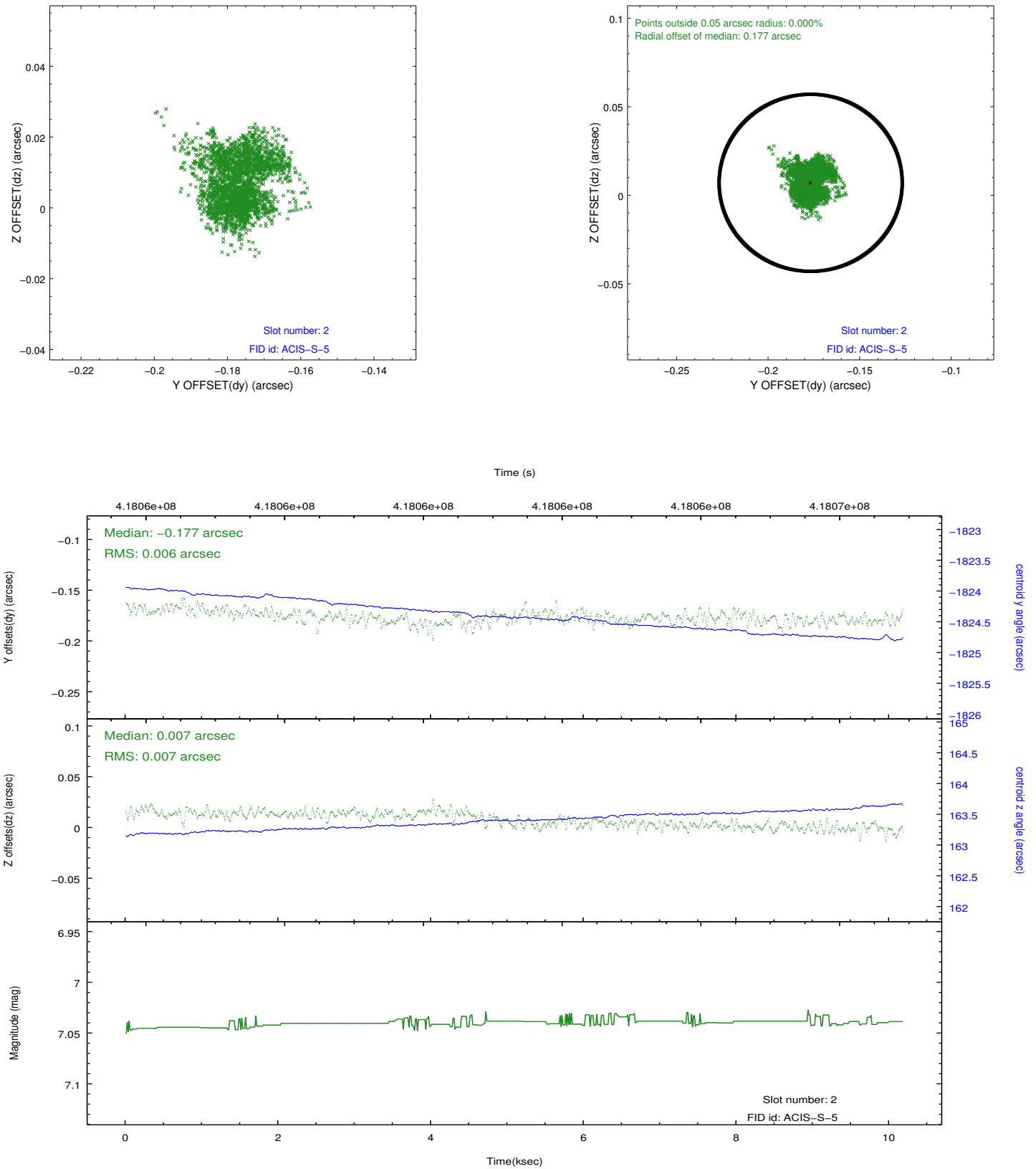
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.02.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.043679408073

A.2 Comments

The data for this observation have been processed using the 'EDSER' sub-pixel event-repositioning algorithm of Li et al. (2004, ApJ, 610, 1204). Small-scale features should become sharper for sources near the aim point. The improvement will be less noticeable for off-axis sources where the size of the point-spread function is comparable to or larger than the size of an ACIS pixel. To take full advantage of the improvement, images should be binned on spatial scales smaller than the size of an ACIS pixel. Note that, at present, the point-spread function has not been calibrated for data to which the EDSER algorithm has been applied. If dither was disabled for the observation, then the algorithm can introduce artificial aliasing effects on spatial scales smaller than a pixel. If you would prefer to use no sub-pixel adjustment or to apply a coordinate randomization, then use `acis_process_events` to reprocess the data with the parameter `pix_adj=NONE` or `RANDOMIZE`, respectively.